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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,417	07/18/2003	Sachin Navin Chheda	200308578-1	4994
22879 7590 02/19/2009 HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION			EXAMINER	
			DU, THUAN N	
	FORT COLLINS, CO 80527-2400		ART UNIT	PAPER NUMBER
			2116	
			NOTIFICATION DATE	DELIVERY MODE
			02/19/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

JERRY.SHORMA@HP.COM mkraft@hp.com ipa.mail@hp.com

	Application No.	Applicant(s)
	10/623,417	CHHEDA ET AL.
Office Action Summary	Examiner	Art Unit
	Thuan N. Du	2116
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLEWHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 25 f This action is FINAL . 2b) ☐ This action is FINAL . Since this application is in condition for allowatelessed in accordance with the practice under	is action is non-final. ance except for formal matters, pr	
Disposition of Claims		
4) Claim(s) 1-3,5-17 and 19-23 is/are pending in 4a) Of the above claim(s) is/are withdra 5) Claim(s) 1-3,5-16,22 and 23 is/are allowed. 6) Claim(s) 17 and 19-21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the edrawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate

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DETAILED ACTION

1. In view of the appeal brief filed on November 25, 2008, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

/Thomas Lee/

- 2. Claims 1-3, 5-17 and 19-23 are presented for examination.
- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

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17-22, 43-50; col. 4, lines 4-7];

Claim Rejections - 35 USC § 103

- 4. Claims 17 and 19-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Somers et al. [Somers], U.S. Patent No. 6,718,474 in view of Primm et al. [Primm], U.S. Patent No. 7,159,022.
- 5. As per claim 17, Somers teaches a method for efficient temperature management of a plurality of computers (CPUs 100), the method comprising: monitoring temperature at each computer (CPU 100) in the system [col. 3, lines

receiving polling messages at each computer (CPU 100) in the system [col. 4, lines 8-10, 26-27; col. 6, lines 22-23];

responding to the polling messages by transmitting a temperature value from each computer (CPU 100) in the system to a single centralized power manager (SMM 300) [col. 3, lines 17-22, 30-36, 46-50; col. 4, lines 8-10, 26-27; col. 6, lines 22-24]; and receiving messages from the single centralized power manager (SMM 300) which instruct each computer (CPU 100) when power management action is to be applied [col. 4, lines 11-17, 27-29; col. 5, lines 3-13; col. 6, lines 24-31].

Somers does not explicitly teach that the power management action is applying thermoelectric cooling to the affected computer. However, Somers discloses that thermoelectric cooler is widely known used to dissipate heat [col. 1, lines 18-23]. Therefore, one of ordinary skill in the art would have recognized that the thermoelectric cooler could be used in placed of or in combination with the clock throttling technique taught by Somers.

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Somers does not explicitly teach that the system is a rack of computers. Primm discloses a system for monitor temperature for a plurality of computers (network appliances) where the computers could be placed in a rack [col. 7, lines 20-26]. It would have been obvious to one of ordinary skill in the art at time of the invention to recognize that the teachings of Somers could be applicable to monitor temperature of a plurality of computers placed in a rack, as taught by Primm, without departing from the scope and spirit of the teachings.

- 6. As per claim 19, Primm teaches that the rack of computers comprises a rack of servers [col. 7, lines 20-21].
- 7. As per claim 20, Somers teaches a centralized method for efficient temperature management of a plurality of computers (CPUs 100), the method comprising:

transmitting polling messages to local monitoring circuitry (thermal sensor 120) at each of the computers (CPUs 100) in the system [col. 4, lines 8-10, 26-27; col. 6, lines 22-23];

receiving responses to the polling messages from the local monitoring circuitry at each of the computers (CPUs 100) in the system [col. 4, lines 8-10, 26-27], wherein the responses include temperature values [col. 3, lines 19-22; col. 6, lines 22-26];

determining at which computers to apply power management action [col. 5, lines 3-13; col. 6, lines 24-31]; and

transmitting messages to said determined computers to apply said power management action [col. 4, lines 12-17; col. 6, lines 33-34].

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Somers does not explicitly teach that the power management action is applying thermoelectric cooling to the affected computer. However, Somers discloses that thermoelectric cooler is widely known used to dissipate heat [col. 1, lines 18-23]. Therefore, one of ordinary skill in the art would have recognized that the thermoelectric cooler could be used in placed of or in combination with the clock throttling technique taught by Somers.

Somers does not explicitly teach that the system is a rack of computers. Primm discloses a system for monitor temperature for a plurality of computers (network appliances) where the computers could be placed in a rack [col. 7, lines 20-26]. It would have been obvious to one of ordinary skill in the art at time of the invention to recognize that the teachings of Somers could be applicable to monitor temperature of a plurality of computers placed in a rack, as taught by Primm, without departing from the scope and spirit of the teachings.

8. As per claim 21, Primm teaches that the rack of computers comprises a rack of servers [col. 7, lines 20-21].

Response to Arguments

9. Applicant's arguments with respect to claims 17 and 19-21 have been considered but are most in view of the new ground(s) of rejection.

Allowable Subject Matter

10. Claims 1-3, 5-16 and 22-23 are allowed.

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Conclusion

11. Examiner has cited particular columns and line numbers in the references as applied to the claims above for the convenience of the Applicant. Although the specified citations are representative of the teachings of the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. In preparing responses, it is respectfully requested that the Applicant fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner. Also, any prior art made of record and not relied upon is also considered pertinent to Applicant's disclosure.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuan Du whose telephone number is (571) 272-3673. The examiner can normally be reached on Monday-Friday: 7:30 AM - 4:00 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Lee can be reached at (571) 272-3667.

Central TC telephone number is (571) 272-2100.

The fax number for the organization is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

TD February 5, 2009

/Thuan N. Du/ Primary Examiner, Art Unit 2116